



# Why Frameworks Matter for Modern Software Developers

Rooting DevSecOps Practice in Security Frameworks

# About BSA | The Software Alliance

With headquarters in Washington, DC, and operations in more than 30 countries, **BSA** is the leading advocate for the global software industry before governments and in the international marketplace. Its members are among the world's most innovative companies, creating software solutions that spark the economy and improve modern life.



# Software Security: Many Best Practices, No Clear Benchmark

- Software Assurance Maturity Model
- Building Security In Maturity Model
- OWASP Secure Coding Guide
- SAFECODE Fundamental Practices for Secure Software Development
- ISO/IEC 27034

“Neither governments nor businesses have effectively leveraged market forces to drive the development of more secure software **because it is not yet clear what standard market forces should meet.**” -- 2017 NSTAC Report

# Objectives of Security Frameworks

- Security frameworks provide a **common language** for different stakeholders to understand and communicate security practices and outcomes
  - Security frameworks enable people, including [developers](#), [sales teams](#), and [legal departments](#), to communicate within companies and with external parties, such as [customers](#), [vendors](#), and [policymakers](#)
- **Software should be no different**
- NIST's Secure Software Development Framework and The BSA Framework for Secure Software, rooted in industry best practices and internationally recognized standards, provide a common organization to measure and communicate security risks

# NIST and BSA Frameworks

- Establish an approach to software security that is:

Flexible

Outcome-focused

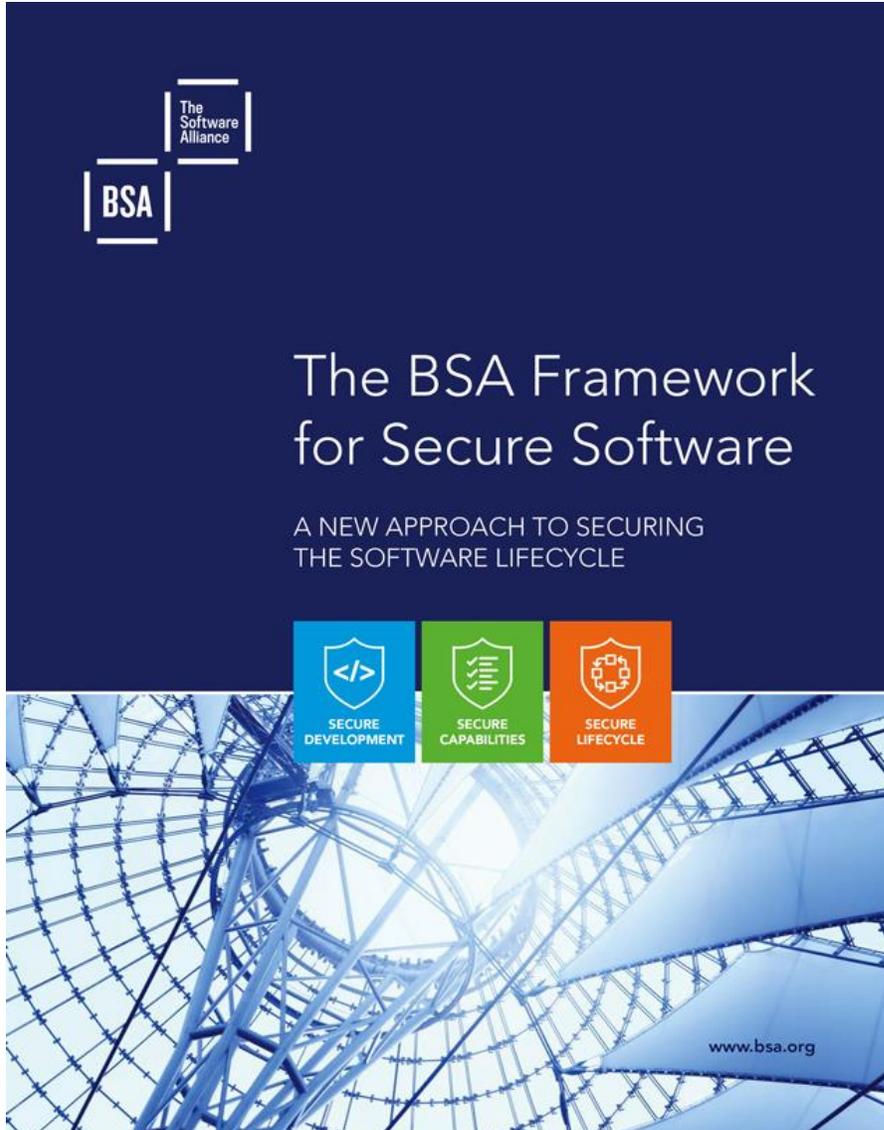
Risk-informed

Cost-effective

Repeatable

- Provide a common organization and structure to help software developers **achieve desired security outcomes** while accounting for the wide spectrum of coding languages, development processes, intended uses, risk profiles, and technological solutions among software products

# The BSA Framework for Secure Software



## SECURE DEVELOPMENT

Secure development addresses security in the phase of software development when a software project is conceived, initiated, developed, and brought to market



## SECURE CAPABILITIES

Secure capabilities identify key security characteristics recommended for a software product



## SECURE LIFECYCLE

Secure lifecycle addresses considerations for maintaining security in a software product from its development through the end of its life

# Thank you!

